1. What is the output of the following program?

#include<stdio.h>

#include<conio.h>

#define main main()

Int main

{ clrscr();

Printf(“Hello IT City”);

}

Answer / Error messages

|  |
| --- |
|  |

1. In the context of int a[]= {19,23,35,47,11}, if &a[1] is 100, write the array element at memory address 108 and address of element having value 19. It is given that a variable of int occupies four bytes.

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| 47 |
| 96 |

1. Find the output of the following program.

int compute( int n)

{

if(n<1)

return(1);

return(n\*compute(n-2));

}

void main()

{

printf("val1=%d val2=%d val3=%d\n",compute(5),compute(4),compute(-5));

}

|  |
| --- |
| val1 = 15 val2 = 8 val3 = 1 |
|  |
|  |

1. In the context of expressions E1,E2 AND E3 and block of statements B, represent the given for loop in terms of while loop

for (E1;E2;E3)

B;

E1;While(E2){B; E3};

1. Consider the following program segment. Find the equivalent from the options

int sum =0;

int i=0;

while (i<5) {

sum += i++

}

Printf(“%d\n”,sum);

1. for(i= 1 ; i<5; i++)sum = sum+i
2. for(i= 0 ; i<5; i++)sum = sum+i
3. for(i= 0 ; i<=5; i++)sum = sum+i
4. for(i= 1 ; i<=5; i++)sum = sum+i
5. for(i= 0 ; i<5; i++)sum = sum+i
6. What is the output of the following?

#include<stdio.h>

#include<conio.h>

void main() {

int i;

for(i=0;i<20;i++)

{

switch(i){

case 0: i+=5;

case 1: i+=2;

case 5: i+=5;

default: i+=4;

}

printf("%d",i);

} }

1621

1. What is the output of the following program

#include<stdio.h>

#include<conio.h>

void main(){

int i,j,x=0;

for(i=0;i<100;i++)

for(j=i;j<100;j++)

x++;

printf("%d", x); }

5050

1. Consider the following program. Write the output for every input shown in the table

#include<stdio.h>

#include<conio.h>

int main() {

int x=0,n;

clrscr();

scanf("%d",&n);

if(n>8) {

if(n<9) x=1; }

else {

if(n>4)

if(n<6) x=2;

else x=3;

else

if(n>2) x=4;

else

x=5; }

printf("%d",x); }

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | 3 | 7 | 9 |
| **5** | **4** | **3** | **0** |

1. What will be the output of the following

#include<stdio.h>

#include<conio.h>

void main()

{ int i,j,k;

clrscr();

for(i=1;i<10;i++){

printf("%d:",i);

for(j=1;j<10;j++)

{

if(i%3==0) break;

if(i>j) continue;

k=i\*10+j;

printf("%d ",k); }

printf("\n");

} } }

|  |
| --- |
| 1:11 12 13 14 15 16 17 18 19 |
| 2: 22 23 24 25 26 27 28 29 |
| 3: |
| 4: 44 45 46 47 48 49 |
| 5: 55 56 57 58 59 |
| 6: |
| 7: 77 78 79 |
| 8: 88 89 |
| 9: |

1. What is the output of the following code?

#include<stdio.h>

#include<conio.h>

void main () {

for (;;);

printf(“HI”);

while(1)

printf(“HELLO”);

do{

printf(“BYE”);

} while(1);

}

Will be in continuous loop due to for loop

1. Find the output of the program

#include<stdio.h>

#include<conio.h>

void main() {

clrscr();

switch(printf("a"),printf("abc"),printf("ab"))

{

case 1: switch(printf("first"))

break;

case 2: switch(printf("second"))

break;

default : switch(printf("third"))

break;

} }

aabcabsecondthird

1. Find the output of the following program

#include<stdio.h>

#include<conio.h>

#define A(x) x;x;x;x;x;x;x;x;x;x;

int main() {

int n=1;

A(A(A(printf("%d \n",n++))));

return 0; }

1 to 1000